

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.21**WELDING WITNESS REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WWR-000141**Date Inspected:** 10-Mar-2007**Project Name:** SAS Superstructure**OSM Arrival Time:** 800**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Shanghai, China

Witness: **Procedure Qualification Record**
Welding **NDT**

Welder Qualification **Fracture Critical**
Mechanical Testing, describe: Macroetch test

Index Lot #: B71-003-07a**Witness Lot #:** B71-012-07**Bridge No:** 34-0006**Component:****Welder:** Jiang Xiao Hu**ID #:** N/A**Joint Description:** Figure 2.3 Fillet weld

N/A

WPS ID #: PWPS-B-T-2132-1

N/A

Base Metal: ASTM A709-50-F-2

N/A

PQR ID #: N/A

N/A

Thickness: 26 mm

N/A

Process: FCAW-G

N/A

Electrode Spec/Class: TWE-711

N/A

Positions: 2-F

N/A

Backing Material: N/A

N/A

CWI: Liu Liu

N/A

Average Amps:

N/A

AWS Code: AWS D1.5 2002

N/A

Average Volts:

N/A

Applicable Sec: 5.10.3

N/A

Travel Speed:

N/A

Heat Input:

N/A

Preheat:

N/A

Summary of Items Observed:

The Caltrans Quality Assurance (QA) Inspector was present as requested to observe fillet weld microetch test for Procedure Qualification Record (PQR) HP300713. This test specimen was welded with the Flux Core Arc Welding (FCAW-G) process with the E71T-1 TWE-711 1.4 mm electrode, in the 2F (horizontal) position. This test was performed per the AWS D1.5, Section 5.10.3 requirements. After the QA inspector performed visual inspection on the single fillet pass for PQR HP 200713 discovered that welds appeared to be in compliance with the Contract documents.

The QA inspector performed dimensional inspections for the PQR HP200713 and discovered that test sample for the HP 200713 had a maximum single fillet weld of approximately 7.1 mm.

Summary of Conversations:

The QA inspector did not have any significant conversations related to this test on this date.

Observed welding, testing or results:

WELDING WITNESS REPORT

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is in general conformance with the contract requirements.
is not in conformance with the contract requirements.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Acuna,Alfredo	Quality Assurance Inspector
Reviewed By:	McClary,David	QA Reviewer
